

UTILITY PATENT APPLICATION TRANSMITTAL

(Small Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No.
12434

Total Pages in this Submission
3

TO THE ASSISTANT COMMISSIONER FOR PATENTS

Box Patent Application
Washington, D.C. 20231

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an invention entitled:

MULTIPLE SHOP SOCKET TOOL

and invented by:

Jerry L. Losee

If a **CONTINUATION APPLICATION**, check appropriate box and supply the requisite information:

☐ Continuation ☐ Divisional ☒ Continuation-in-part (CIP) of prior application No.: 08/917,894

Which is a:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: _____

Which is a:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: _____

Enclosed are:

Application Elements

1. ☐ Filing fee as calculated and transmitted as described below
2. ☒ Specification having 7 pages and including the following:
 - a. ☒ Descriptive Title of the Invention
 - b. ☒ Cross References to Related Applications (if applicable)
 - c. ☐ Statement Regarding Federally-sponsored Research/Development (if applicable)
 - d. ☐ Reference to Microfiche Appendix (if applicable)
 - e. ☒ Background of the Invention
 - f. ☒ Brief Summary of the Invention
 - g. ☒ Brief Description of the Drawings (if drawings filed)
 - h. ☒ Detailed Description
 - i. ☒ Claim(s) as Classified Below
 - j. ☒ Abstract of the Disclosure

I hereby certify that this correspondence is in compliance with the United States Patent Office's requirements for filing under 37 CFR 1.53(b) and 37 CFR 1.53(c).
Date: 12/31/98
Signature: Anne Marie Poirier
Name: ANNE MARIE POIRIER

UTILITY PATENT APPLICATION TRANSMITTAL (Small Entity)

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Application Elements (Continued)

3. ☒ Drawing(s) (when necessary as prescribed by 35 USC 113)
- a. ☐ Formal b. ☒ Informal Number of Sheets 2
4. ☒ Oath or Declaration
- a. ☒ Newly executed (original or copy) ☐ Unexecuted
- b. ☐ Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional application only)
- c. ☒ With Power of Attorney ☐ Without Power of Attorney
- d. ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) named in the prior application,
see 37 C.F.R. 1.63(d)(2) and 1.33(b).
5. ☐ Incorporation By Reference (usable if Box 4b is checked)
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
6. ☐ Computer Program in Microfiche
7. ☐ Genetic Sequence Submission (if applicable, all must be included)
- a. ☐ Paper Copy
- b. ☐ Computer Readable Copy
- c. ☐ Statement Verifying Identical Paper and Computer Readable Copy

Accompanying Application Parts

8. ☐ Assignment Papers (cover sheet & documents)
9. ☐ 37 CFR 3.73(b) Statement (when there is an assignee)
10. ☐ English Translation Document (if applicable)
11. ☐ Information Disclosure Statement/PTO-1449 ☐ Copies of IDS Citations
12. ☐ Preliminary Amendment
13. ☒ Acknowledgment postcard
14. ☒ Certificate of Mailing
- ☐ First Class ☒ Express Mail (Specify Label No.): EE525842116US

UTILITY PATENT APPLICATION TRANSMITTAL (Small Entity)

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Accompanying Application Parts (Continued)

15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. ☒ Small Entity Statement(s) - Specify Number of Statements Submitted: 1
17. ☐ Additional Enclosures (please identify below):

Fee Calculation and Transmittal

CLAIMS AS FILED

For	#Filed	#Allowed	#Extra	Rate	Fee
Total Claims	5	- 20 =	0	x \$9.00	\$0.00
Indep. Claims	2	- 3 =	0	x \$39.00	\$0.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
BASIC FEE					\$380.00
OTHER FEE (specify purpose)					\$0.00
TOTAL FILING FEE					\$380.00

- ☒ A check in the amount of \$380.00 to cover the filing fee is enclosed.
- ☐ The Commissioner is hereby authorized to charge and credit Deposit Account No. _____ as described below. A duplicate copy of this sheet is enclosed.
- ☐ Charge the amount of _____ as filing fee.
 - ☐ Credit any overpayment.
 - ☐ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.
 - ☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).

Dated: 12/31/98


Signature

Robert A. de Groot, Patent Agent
Reg. No. 34,316
Hopkins Roden Crockett Hansen & Hoopes, PLLC
P.O. Box 51219
Idaho Falls, ID 83405-1219

CC:

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Prior Application Serial No.: 08/917,894

Applicant: Jerry L. Losee

Prior Filing Date: 08/27/97

Title: MULTI SHOP SOCKET TOOL

Atty. Dkt. No.: 12434

Prior Examiner: Skinner Sinclair

Prior Group Art Unit: 3723

CIP APPLICATION

BOX PATENT APPLICATION

Assistant Commissioner for Patents

Washington, DC 20231

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail (no. EE52584211645) in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231. on:

Date of Deposit 12/31/98

Signature Anne Marie Poirier

Printed Name ANNE MARIE POIRIER

Sir:

This application repeats a substantial portion of the prior application 08/917,894 and adds and claims additional disclosure not presented in the prior application.

In the Office Action for application 08/917,894 the Examiner stated:

- “1. Applicant has filed utility patent and design patent information. This application is for utility patent. Applicant must file design patent separately.”

Response

Applicant has deleted the sheet that included design information. The Examiner stated:

- “2. This application is informal in the arrangement of the specification. The

following guidelines illustrate the preferred layout and content for patent applications. These guidelines are suggested for the applicant's use."

Response

The guidelines are incorporated.

The Examiner stated:

- "3. Claims 1-9 objected to because of the following informalities:
- a. Misspelling of attachment and attaching in claims 1-9.
 - b. Top margin on page 6 was not maintained leaving claim unreadable in claim 8. appropriate correction is required."

Response

Claims 1-9 are abandoned. New claims 1-5 are totally re-written and corrected.

The Examiner stated:

- "6. Claims 1-9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention."

Response

New claims 1-5 are re-written to correct all the noted deficiencies in paragraphs 6 and 7.

The Examiner stated:

- "9. Claims 1-9 rejected under 35 U.S.C. 102(b) as being anticipated by Crimp as well as claims can be understood."

Response

Applicant has rewritten the claims, added new detailed description and added a new Figure 4 illustrating a double ended four socket tool. This tool is a definite improvement and simpler than the Crimp wrench in the following ways:

- 1) Crimp has four sockets and requires three springs 14, 15 and 16, four pins 11 and 13, and four lugs 13, whereas the present invention requires only one small and one large spring, two pins and no lugs.
- 2) Crimp has a square drive socket on one end and the four hex sockets nested on the other end whereas the present invention has two sockets on one end, two on the other end, and the square drive aperture in the middle of the body.

Clearly, not every element of Applicant's claims 1-5 are found in Crimp. Accordingly, there is no anticipation, and it is respectfully submitted that the Examiner's rejection is improper and should be withdrawn.

To this regard, Applicant respectfully reminds the Examiner of what the court stated in *Ceramic Tilers Supply, Inc. v. Tile Council of America, Inc.*, 378 F2 283, 154 USPQ 130 (9th Cir. 1967):

Anticipation is a technical defense which must meet strict standards: 'Unless all the same elements are found in exactly the same situation and united in the same way to perform the identical function' in a single prior art reference 'there is no anticipation.' *Id.* at 284-85, 154 USPQ at 131-132.

Conclusion

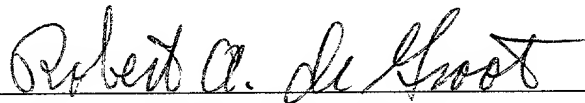
The foregoing amended claims and arguments are believed to be a complete response to the outstanding Examiner's Action on the prior application.

It is respectfully submitted that there is no claim, teaching, motivation or suggestion in any of the prior art cited, alone or in combination, to produce what Applicant claims.

It is further submitted that this CIP application defines patentable subject matter and that the claims are in a condition for allowance. Such allowance at an early date is respectfully requested.

Should any issues remain which would preclude the prompt disposition of this case, it is requested that the Examiner contact the undersigned by telephone.

RESPECTFULLY SUBMITTED,



Robert A. de Groot, Patent Agent

Reg. No.: 34,316

Hopkins Roden Crockett Hansen & Hoopes, PLLC

P.O. Box 51219

Idaho Falls, ID 83405-1219

(208) 523-4445

Date

12/31/98

Atty. Dkt. No.: 12434

Title: MULTIPLE SHOP SOCKET TOOL

Inventor: Jerry L. Losee

CROSS-REFERENCE TO RELATED APPLICATIONS

This application is a continuation-in-part application of Serial No. 08/917,894 which will be abandoned.

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT

Not applicable

TECHNICAL FIELD

This invention relates in general to impact and ratchet type socket tools.

BACKGROUND OF THE INVENTION

Socket tools of today take up a large amount of space in which a person is constantly searching through their tool box for the certain size socket to properly handle a job. Sockets of today come in numerous amounts of different standard and metric sizes which makes working on projects that have to be done quickly more difficult to accomplish in a short amount of time.

SUMMARY OF THE INVENTION

This invention is directed to ratchet and impact socket tools which are used

to tighten and loosen nuts, bolts and lug nuts. The newly invented sockets are built with two to three sizes in one that will eliminate a lot of frustrations of searching for the socket size in need. It also makes a great space-saving, easy-to-carry socket set. With this socket you can easily tighten or loosen three or more different sizes of bolts or nuts without the costly time of searching and changing sockets for every size.

The invention is a socket wrench consisting of different hexagon-shaped tools fitted or nested in such a way so they can move inside of one another being biased by springs and retained pins. Each hexagon tool is pressured by its own individual compression spring. The hexagon tool has small roll pin holes and slots that allow movement back and forth with the help of roll pins restricting movement too far one way or the other and keeping the multiple socket tool in complete working form.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a perspective view of a three-sized multiple socket tool.

Figure 2 is an exploded view of the three-sized multiple socket tool.

Figure 3 is an exploded view of a smaller two-sized multiple socket tool.

Figure 4 is a side section view of a multiple socket tool having four socket sizes.

DETAILED DESCRIPTION OF THE INVENTION

A perspective view of a large three-sized multi socket is illustrated in Figure 1. Referring to Figure 2, small roll pin 1 fits tightly into hole 2 which also extends down through slot 7 that allows the middle hexagon tool 8 to slide back and forth inside of the outer socket 3. The large compression spring 5 is fitted behind the outer hexagon tool 8 that is nested inside socket 3 that keeps pressure applied to the outer hexagon tool 8. Small compression spring 6 is smaller than spring 5 but its purpose is the same except that it pushes on the inner hexagon tool 11. Roll pin 10 fits tightly into hole 9 which extends into slot 12 and allows the outer hexagon tool 11 to move back and forth inside of middle hexagon tool 8. The square drive aperture 4 is for the application of an air gun or ratchet wrench device.

Figure 3 is a smaller two-sized multiple socket tool with only one compression spring 16 and one hexagon tool.

Figure 3 illustrates a hardened metal multiple socket tool 13 which is used for tightening or loosening various sizes of nuts and bolts. The multiple sockets can be attached on an impact gun, ratchet wrench or any other socket attachment tool by inserting the attachment into aperture 19. As described above, roll pin 14 fits in aperture 15 and engages slot 18.

Figure 4 illustrates a multiple socket tool 25 having four sockets within

body 27 that, for example, could range from 7/8 inches up to 15/16 inches in 1/16 inch increments. This section view shows the square-sectioned driving tool 30 (in phantom) inserted within a first end 35 of tool 25 and a driven bolt 40 within a second end 45. The tool 30 inserts with square aperture 47. The first end smaller socket 50 is contained within the first end larger socket 55. Small spring 60 biases smaller socket to the left end extended position and is restrained by first end pin 65 in the first end slot 70.

The second end 45 of tool 25 illustrates engagement of second end larger socket 75 with the bolt 40. The second smaller socket 80 is in a retracted position against large spring 85. When the tool 25 is removed from the bolt 40, large spring 85 restores the socket 80 to the right and is retained by second end pin 90 in second end slot 95. It can be seen that the bolt and the driving tool can be reversed to accommodate four different size bolts.

CLAIMS

WHAT IS CLAIMED IS:

1. A multiple socket tool comprising:
 - a) a body having a first end and a second end, the first end and second end having a hex-shaped interior, and a first and second end pin within the interior;
 - b) a first end smaller diameter hex-shaped socket within the first end, and the socket having a first end slot;
 - c) a spring biasing the smaller diameter hex-shaped socket to an extended position wherein the first end pin engages the first end slot;
 - d) a square aperture in a center section of the body;
 - e) a second end smaller diameter hex-shaped socket within the second end and the socket having a second end slot; and
 - f) a large spring biasing the second end smaller diameter hex-shaped socket to an extended position wherein the second end pin engages the second end slot.
2. The tool of claim 1 wherein the sockets are sized for standard inch sizes.
3. The tool of claim 1 wherein the sockets are sized for standard metric sizes.

- 1 4. The tool of claim 1 wherein the sockets are sized for auto and truck lug
2 nuts.
- 3 5. A multiple socket lug nut comprising:
- 4 a) a body having a first end and a second end, the first end and second
5 end having a hex-shaped interior, and a first and second end pin
6 within the interior;
- 7 b) a first end smaller diameter hex-shaped socket within the first end,
8 and the socket having a first end slot;
- 9 c) a spring biasing the smaller diameter hex-shaped socket to an
10 extended position wherein the first end pin engages the first end slot;
- 11 d) a square aperture in a center section of the body;
- 12 e) a second end smaller diameter hex-shaped socket within the second
13 end and the socket having a second end slot; and
- 14 f) a large spring biasing the second end smaller diameter hex-shaped
15 socket to an extended position wherein the second end pin engages
16 the second end slot wherein the sockets are sized for different auto
17 and truck tires.

ABSTRACT OF THE DISCLOSURE

The multiple socket tool combines two, three or four socket sizes. The sockets are nested inside each other so you can apply it to sizes for tightening and loosening nuts and bolts without changing sockets. Compression springs and pins allow the inner sockets to depress into the larger socket allowing you to use the proper size for your application. They can be driven by a ratchet wrench or an impact gun. The multi sockets will consist of numerous standard and metric sizes.

FIG. 1

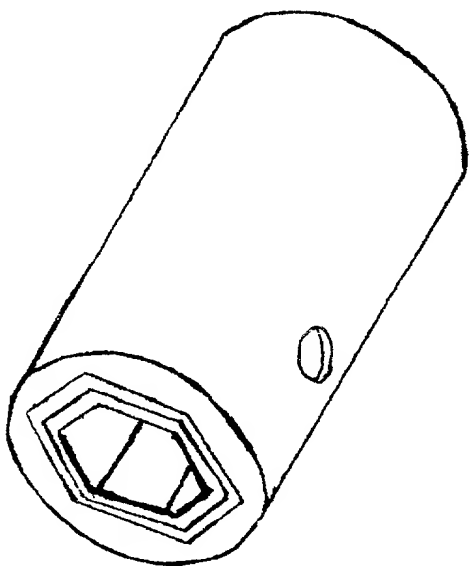


FIG. 2

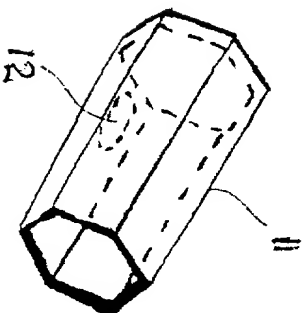
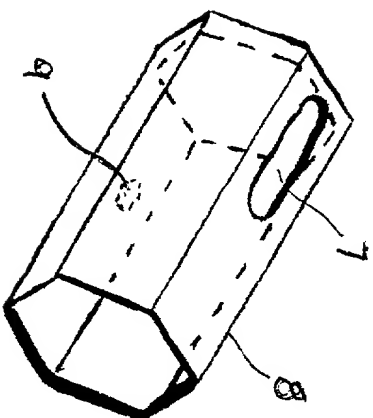
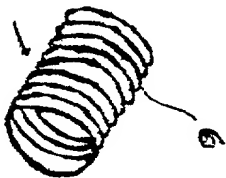
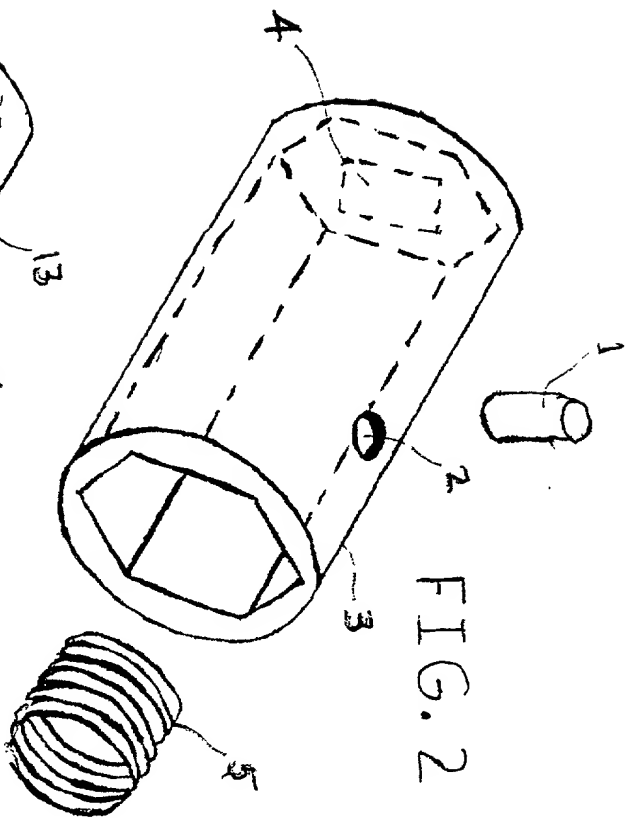
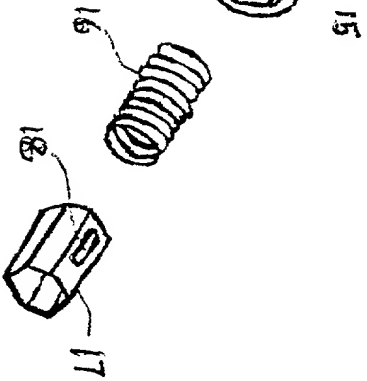


FIG. 3



051221 0200000000

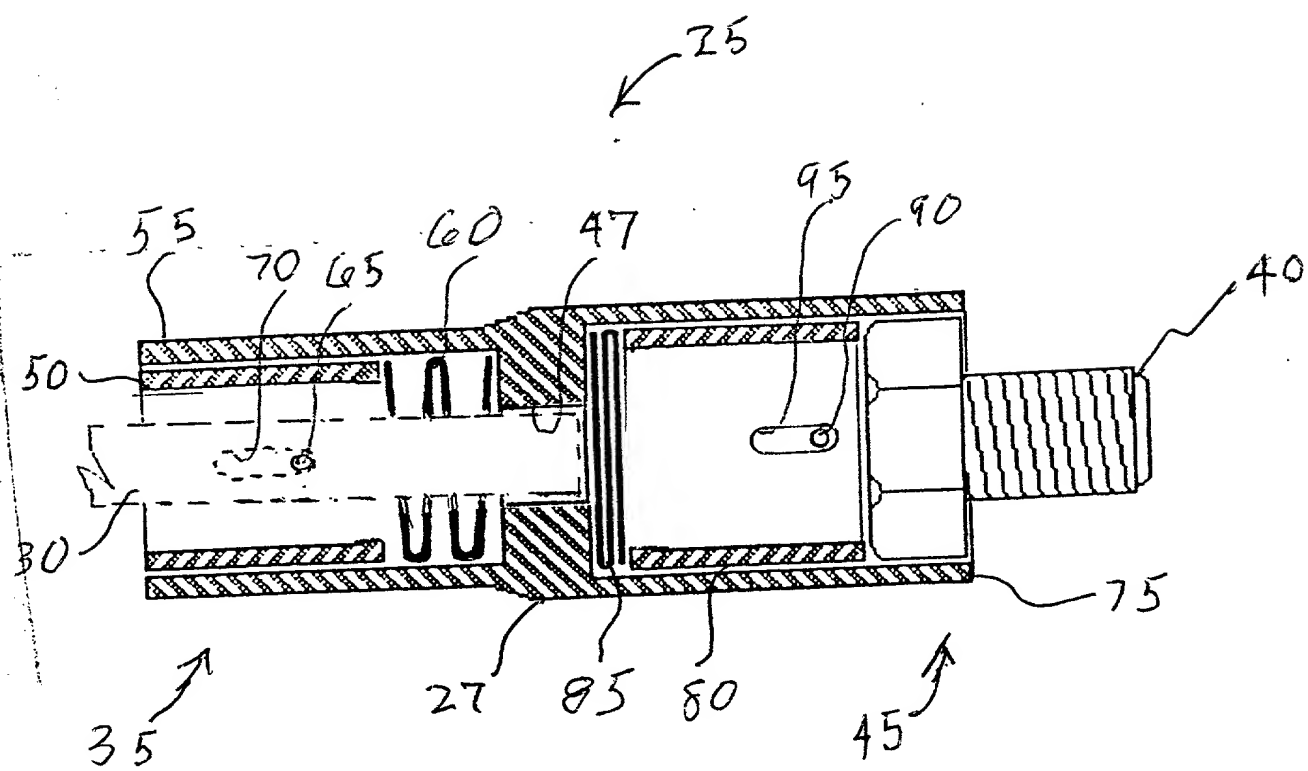


FIG 4

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS (37 CFR 1.9(f) AND 1.27 (b)) - INDEPENDENT INVENTOR

Docket No.
12434

Serial No.
08/917,894

Filing Date
08/27/97

Patent No.

Issue Date

Applicant/ Jerry L. Losee
Patentee:

Invention: **MULTIPLE SHOP SOCKET TOOL**

As a below named inventor, I hereby declare that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office with regard to the invention entitled above and described in:

- ☒ the specification to be filed herewith.
☐ the application identified above.
☐ the patent identified above.

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail (No. EE525842116 US) in accordance with the instructions for Addressee's Office for the Patent and Trademark Office, D.C. 20501. cm

12/31/98
Anne Marie Boirier
ANNE MARIE BOIRIER

I have not assigned, granted, conveyed or licensed and am under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any person who could not be classified as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

- ☒ No such person, concern or organization exists.
☐ Each such person, concern or organization is listed below.

*NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities (37 CFR 1.27)

FULL NAME

ADDRESS

☐ Individual ☐ Small Business Concern ☐ Nonprofit Organization

FULL NAME

ADDRESS

☐ Individual ☐ Small Business Concern ☐ Nonprofit Organization

FULL NAME

ADDRESS

☐ Individual ☐ Small Business Concern ☐ Nonprofit Organization

FULL NAME

ADDRESS

☐ Individual ☐ Small Business Concern ☐ Nonprofit Organization

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF INVENTOR Jerry L. Losee

SIGNATURE OF INVENTOR Jerry L. Losee

DATE: 12-29-98

NAME OF INVENTOR _____

SIGNATURE OF INVENTOR _____

DATE: _____

NAME OF INVENTOR _____

SIGNATURE OF INVENTOR _____

DATE: _____

NAME OF INVENTOR _____

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DATE: _____

NAME OF INVENTOR _____

SIGNATURE OF INVENTOR _____

DATE: _____

NAME OF INVENTOR _____

SIGNATURE OF INVENTOR _____

DATE: _____

Docket No.
12434

Declaration and Power of Attorney For Patent Application

English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

MULTIPLE SHOP SOCKET TOOL

the specification of which

(check one)

☐ is attached hereto.

☒ was filed on 08/27/97 as United States Application No. or PCT International

Application Number 08/917,894

and was amended on _____

(if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365(b) of any foreign application(s) for patent or inventor's certificate, or Section 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Not Claimed

(Number)

(Country)

(Day/Month/Year Filed)

☐

(Number)

(Country)

(Day/Month/Year Filed)

☐

(Number)

(Country)

(Day/Month/Year Filed)

☐

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail (No. EE525842116US) in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20001.

Date of Deposit 12/31/98

Signature Annie Marie Porier

by ANNIE MARIE PORIER

I hereby claim the benefit under 35 U.S.C. Section 119(e) of any United States provisional application(s) listed below:

(Application Serial No.)

(Filing Date)

(Application Serial No.)

(Filing Date)

(Application Serial No.)

(Filing Date)

I hereby claim the benefit under 35 U. S. C. Section 120 of any United States application(s), or Section 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. Section 112, I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, C. F. R., Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

(Application Serial No.)

(Filing Date)

(Status)
(patented, pending, abandoned)

(Application Serial No.)

(Filing Date)

(Status)
(patented, pending, abandoned)

(Application Serial No.)

(Filing Date)

(Status)
(patented, pending, abandoned)

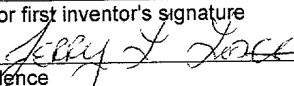
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. *(list name and registration number)*

Robert A. de Groot, Patent Agent, Reg. No. 34,316

Send Correspondence to: **Robert A. de Groot**
Hopkins Roden Crockett Hansen & Hoopes, PLLC
P.O. Box 51219
Idaho Falls, ID 83405-1219

Direct Telephone Calls to: *(name and telephone number)*
Robert A. de Groot (208) 523-4445

Full name of sole or first inventor Jerry L. Losee	
Sole or first inventor's signature 	Date 12-29-98
Residence 9321 East Merrick Road, Lava Hot Springs, ID 83246	
Citizenship United States of America	
Post Office Address P.O. Box 565, Lava Hot Springs, ID 83246	

Full name of second inventor, if any	
Second inventor's signature	Date
Residence	
Citizenship	
Post Office Address	